



**OWNER'S MANUAL  
MANUEL DU PROPRIÉTAIRE  
BEDIENUNGSANLEITUNG**

**TT-R50**

**TT-R50E  
TT-R50EX**

**1P6-F8199-82**



PRINTED IN CHINA  
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(E,F,G)



**OWNER'S MANUAL**

**TT-R50**

**TT-R50E  
TT-R50EX**

**1P6-F8199-82-E0**



Congratulations on your purchase of the Yamaha TT-R50E/TT-R50EX. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

This manual will give you an understanding of the operation, inspection, and basic maintenance of this motorcycle. If you have any questions concerning the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

The design and manufacture of this Yamaha motorcycle fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the performance or economy of operation of the motorcycle. To maintain these high standards, it is important that you and your Yamaha dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.

## **AN IMPORTANT SAFETY MESSAGE:**

- READ THIS MANUAL COMPLETELY BEFORE OPERATING YOUR MOTORCYCLE. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS.
- PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS ON THE MOTORCYCLE.
- NEVER OPERATE A MOTORCYCLE WITHOUT PROPER TRAINING OR INSTRUCTION.
- WEIGHT OF THE RIDER SHOULD NOT EXCEED 40 kg (88 lb).

## **AN IMPORTANT NOTE TO PARENTS:**

This motorcycle is not a toy. Before you let your child ride this motorcycle, you should understand the instructions and warnings in this Owner's Manual. Then be sure your child understands and will follow them. Children differ in skills, physical abilities, and judgment. Some children may not be able to operate a motorcycle safely. Parents should supervise their child's use of the motorcycle at all times. Parents should permit continued use only if they determine that the child has the ability to operate the motorcycle safely.

Your motorcycle was delivered with an adjustable speed limiter. Yamaha recommends that all beginners start off with the speed limiter adjusting screw turned in to limit the amount of speed available while they learn. The adjusting screw may be gradually turned out to increase maximum speed as the beginner becomes more familiar with operating the motorcycle. Parents should decide when to adjust the motorcycle for more power as their youngster's riding skills improve.

# **INTRODUCTION**

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**MOTORCYCLES ARE SINGLE TRACK VEHICLES. THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR. EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING THIS MOTORCYCLE.**



HE OR SHE SHOULD:

- OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION.
- OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL.
- OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES.
- OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.

# IMPORTANT MANUAL INFORMATION

EAU41090

Particularly important information is distinguished in this manual by the following notations:

	<b>The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!</b>
	<b>Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person inspecting or repairing the motorcycle.</b>
<b>CAUTION:</b>	<b>A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.</b>
<b>NOTE:</b>	<b>A NOTE provides key information to make procedures easier or clearer.</b>

## NOTE:

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.

EWA10030



**PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE.**

# IMPORTANT MANUAL INFORMATION

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EWA14350

## **WARNING**

**THIS MOTORCYCLE IS DESIGNED AND MANUFACTURED FOR OFF-ROAD USE ONLY. IT IS ILLEGAL TO OPERATE THIS MOTORCYCLE ON ANY PUBLIC STREET, ROAD OR HIGHWAY. SUCH USE IS PROHIBITED BY LAW. THIS MOTORCYCLE COMPLIES WITH ALMOST ALL STATE OFF-HIGHWAY NOISE LEVEL AND SPARK ARRESTER LAWS AND REGULATIONS. PLEASE CHECK YOUR LOCAL RIDING LAWS AND REGULATIONS BEFORE OPERATING THIS MOTORCYCLE.**

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\*Product and specifications are subject to change without notice.



# IMPORTANT MANUAL INFORMATION

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EAU37230

**TT-R50E/TT-R50EX  
OWNER'S MANUAL**  
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# SAFETY INFORMATION

EAU39313

## Safe riding

- Always make pre-operation checks. Careful checks may help prevent an accident.
- This motorcycle is designed for off-road use only, therefore, it is illegal to operate it on public streets, roads, or highways, even a dirt or gravel one. Off-road use on public lands may be illegal. Please check local regulations before riding.
- This motorcycle is designed to carry the operator only. No passengers.
- Many accidents involve inexperienced operators.
  - Make sure that the operator is qualified and that you only lend your motorcycle to other qualified operators.
  - Know your skills and limits. Staying within your limits may help you to avoid an accident.
- Many accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or un-

dercornering (insufficient lean angle for the speed). Never travel faster than warranted by conditions.

- Ride cautiously in unfamiliar areas. You may encounter hidden obstacles that could cause an accident.
- The posture of the operator is important for proper control. The operator should keep both hands on the handlebar and both feet on the operator footrests during operation to maintain control of the motorcycle.
- Never ride under the influence of alcohol or other drugs.
- Be sure the transmission is in neutral before starting the engine.

## Protective apparel

The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries.

- Always wear an approved helmet.

- Wear a face shield or goggles. Wind in your unprotected eyes could contribute to an impairment of vision that could delay seeing a hazard.
- The use of a jacket, heavy boots, trousers, gloves, etc., is effective in preventing or reducing abrasions or lacerations.
- Never wear loose-fitting clothes, otherwise they could catch on the control levers, footrests, or wheels and cause injury or an accident.
- Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.

## Modifications

Modifications made to this motorcycle not approved by Yamaha, or the removal of original equipment, may render the motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use.

## Loading and accessories

Adding accessories to your motorcycle can adversely affect stability and handling if the weight distribution of the motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding accessories to your motorcycle. Use extra care when riding a motorcycle that has added accessories. Here are some general guidelines to follow if adding accessories to your motorcycle:

### Loading

- The weight of the operator must not exceed 40 kg (88 lb).
- Accessory weight should be kept as low and close to the motorcycle as possible. Make sure to distribute the weight as evenly as possible on both sides of the motorcycle to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories are securely attached to the motorcycle before riding. Check accessory mounts frequently.

- Never attach any large or heavy items to the handlebar, front fork, or front fender.

### Accessories

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories that may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. Use extreme caution when selecting and installing any accessories.

Keep these guidelines in mind for mounting accessories in addition to those provided under “Loading”.

- Never install accessories or that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation.
- Accessories fitted to the handlebar or the front fork area can create instability due to improper

weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.

- Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended.
- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the motorcycle’s electrical system, an electric failure could result, which could cause a dangerous loss of engine power.

# SAFETY INFORMATION

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## Gasoline and exhaust gas

- GASOLINE IS HIGHLY FLAMMABLE:

- Always turn the engine off when refueling.
- Take care not to spill any gasoline on the engine or exhaust pipe(s)/muffler(s) when refueling.
- Never refuel while smoking or in the vicinity of an open flame.
- Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation.
- Always turn the engine off before leaving the motorcycle unattended and remove the key from the main switch. When parking the motorcycle, note the following:
  - The engine and exhaust pipe(s)/muffler(s) may be hot, therefore, park the motorcycle in a place

where pedestrians or children are not likely to touch these hot areas.

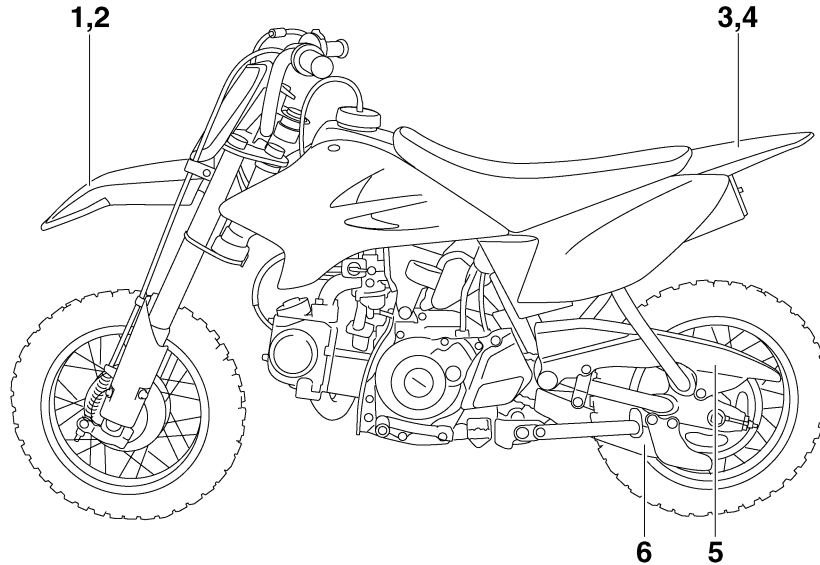
- Do not park the motorcycle on a slope or soft ground, otherwise it may fall over.
- Do not park the motorcycle near a flammable source (e.g., a kerosene heater, or near an open flame), otherwise it could catch fire.
- When transporting the motorcycle in another vehicle, make sure that it is kept upright and that the fuel cock(s) are turned to “ON” or “RES” (for vacuum type)/“OFF” (for manual type). If the motorcycle should lean over, gasoline may leak out of the carburetor or fuel tank.
- If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get into your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.

## Location of important labels

Please read the following important labels carefully before operating this vehicle.

For Canada

1



# SAFETY INFORMATION

For Canada

1

**1**  **CAUTION**


Turn off the main switch after riding to avoid draining the battery.

1P6-F151A-00

**2**  **ATTENTION**

Couper le contact après l'utilisation du véhicule afin de préserver la batterie.

1P6-F151A-10

**3**  **WARNING**

- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- NEVER CARRY A PASSENGER. You increase your risk of losing control if you carry a passenger.
- NEVER OPERATE THIS VEHICLE ON PUBLIC ROADS. You can collide with another vehicle if you operate this vehicle on a public road.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.

3PT-2118K-A0

**4**  **AVERTISSEMENT**

- LIRE LE MANUEL DU PROPRIETAIRE ANSI QUE TOUTES LES ETIQUETTES AVANT D'UTILISER CE VEHICULE.
- NE JAMAIS TRANSPORTER DE PASSAGER. La conduite avec passager augmente les risques de perte de contrôle.
- NE JAMAIS ROULER SUR DES CHEMINS PUBLICS. Vous pourriez entrer en collision avec un autre véhicule.
- TOUJOURS PORTER UN CASQUE DE MOTOCYCLISTE APPROUVE, des lunettes et des vêtements de protection.

3PT-2118K-B0

**5** **TIRE INFORMATION**

Cold tire normal pressure should be set as follows.

FRONT : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi  
REAR : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi

1P6-F218G-00

**6** **INFORMATION SUR LES PNEUS**

La pression des pneus à froid doit normalement être réglée comme suit.

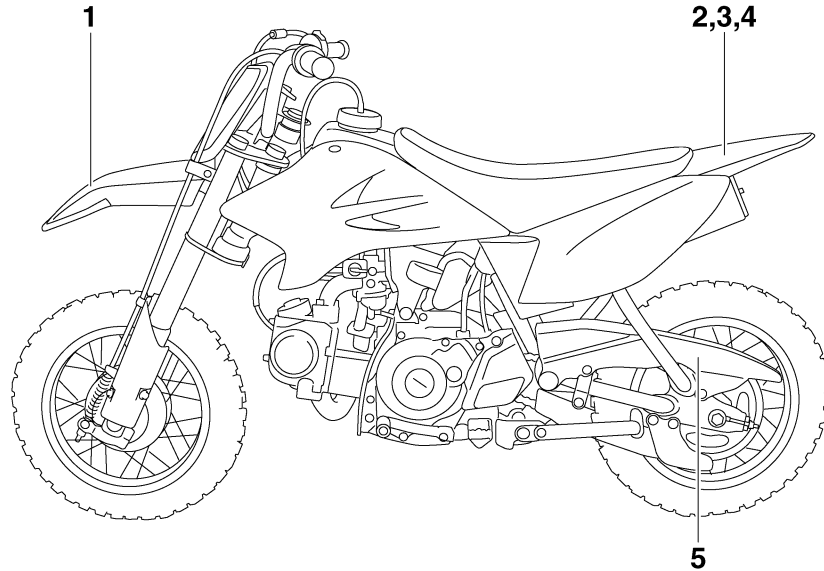
AVANT : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi  
ARRIERE : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi

1P6-F218G-10



Except for Canada

1




# SAFETY INFORMATION

## Except for Canada

1


### 1 TT-R50E




- Turn off the main switch after riding to avoid draining the battery.
- Couper le contact après l'utilisation du véhicule afin de préserver la batterie.
- Girare il blocchetto accensione sulla posizione di spegnimento dopo l'utilizzo del mezzo per evitare di scaricare la batteria.
- Schalten Sie den Hauptschalter nach der Fahrt aus, um Entladung der Batterie zu vermeiden.
- Apague el interruptor principal después de conducir para evitar que la batería se agote.

1P6-F151A-20

2



- Before you operate this vehicle, read the owner's manual.
- Prima di usare il veicolo, leggete il manuale di istruzioni.
- Lire le manuel du propriétaire avant d'utiliser ce véhicule.
- Lesen Sie die Bedienungsanleitung bevor Sie dieses Fahrzeug fahren.
- Antes de conducir este vehículo, lea el Manual del Propietario.



5PA-21568-00

### 4 TT-R50E



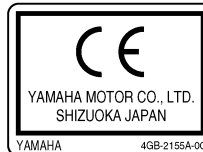
### 1 TT-R50EX

 **CAUTION**

Turn off the main switch after riding to avoid draining the battery.

1P6-F151A-00

### 3 TT-R50E



5

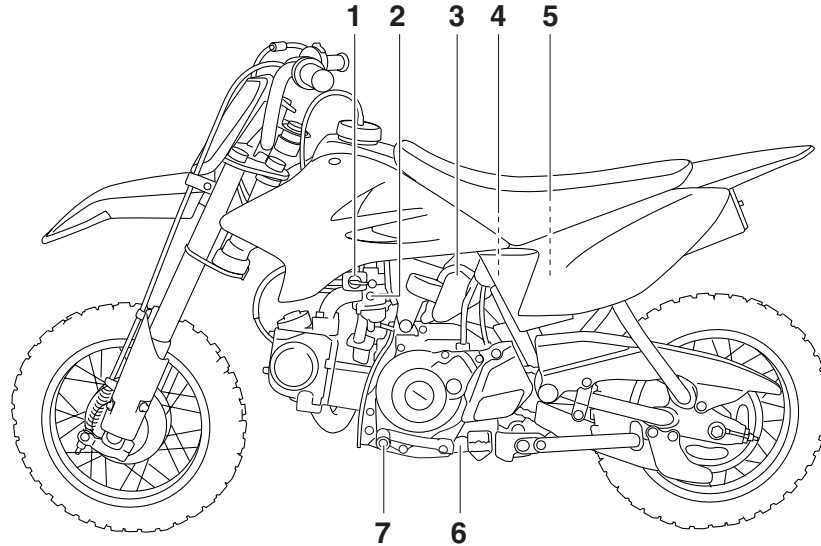
**TIRE INFORMATION**

Cold tire normal pressure should be set as follows.

FRONT : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi  
REAR : 100kPa, {1.00kgf/cm<sup>2</sup>}, 15psi

1P6-F218G-00

## Left view



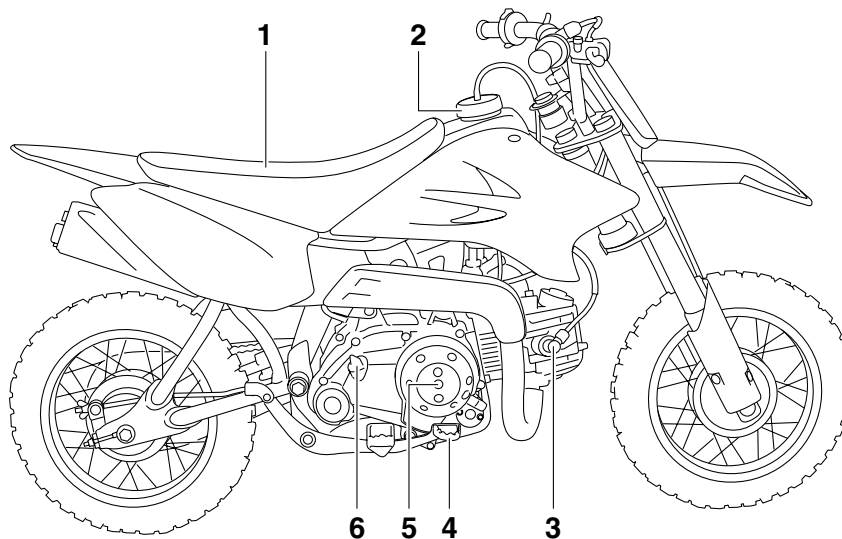
1. Fuel cock (page 3-5)
2. Throttle stop screw (page 6-11)
3. Air filter element (page 6-8)
4. Fuse (page 6-25)
5. Battery (page 6-23)
6. Engine oil drain bolt (page 6-6)
7. Shift pedal (page 3-2)

# DESCRIPTION

EAU10420

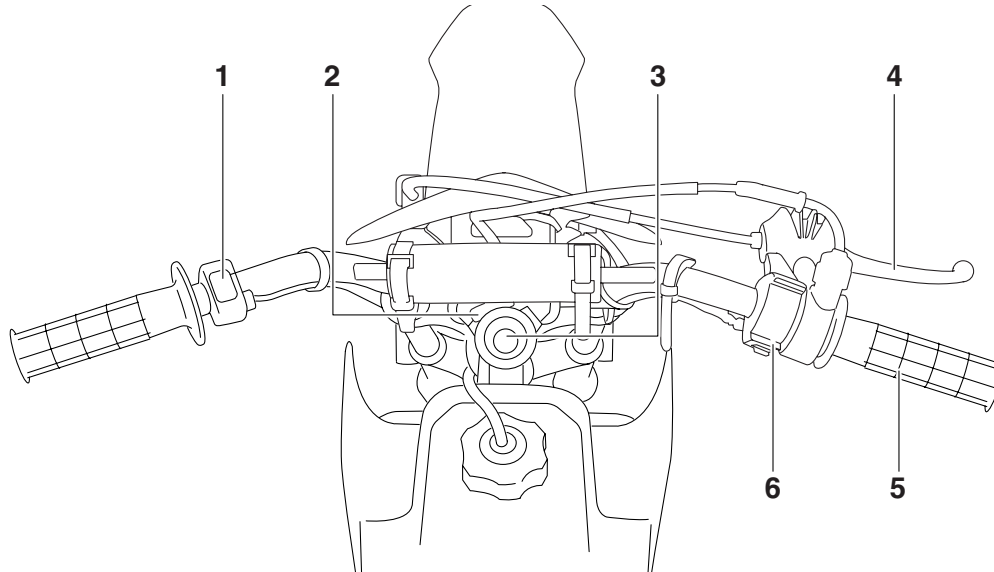
## Right view

2



1. Seat (page 3-7)
2. Fuel tank cap (page 3-3)
3. Spark plug cap (page 6-5)
4. Brake pedal (page 3-3)
5. Clutch adjusting screw (page 6-14)
6. Engine oil filler cap (page 6-6)

## Controls and instruments



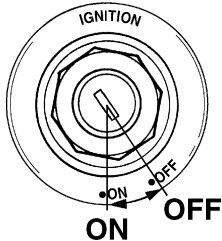
1. Left handlebar switch (page 3-1)
2. Starter (choke) lever (page 3-6)
3. Main switch (page 3-1)
4. Brake lever (page 3-3)
5. Throttle grip (page 6-11)
6. Right handlebar switch (page 3-1)

# INSTRUMENT AND CONTROL FUNCTIONS

3

## Main switch

EAU40340



The main switch controls the ignition system. The main switch positions are described below.

### ON

EAU10630

All electrical systems are supplied with power, and the engine can be started. The key cannot be removed.

### OFF

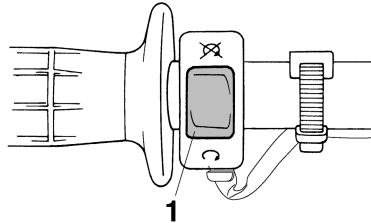
EAU10660


All electrical systems are off. The key can be removed.

## Handlebar switches

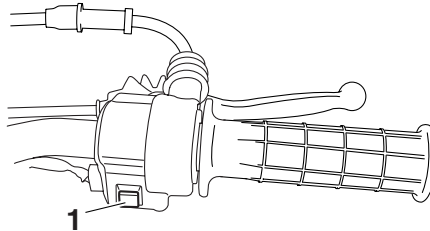
EAU12347


### Left



1. Engine stop switch “”



### Right



1. Start switch “”

## Engine stop switch “”

EAU12660

Set this switch to “” before starting the engine. Set this switch to “” to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

## Start switch “”

EAU12710

Push this switch to crank the engine with the starter.

ECA10050

### CAUTION:

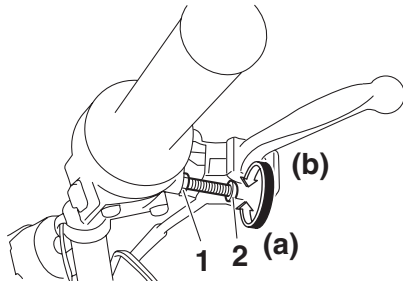
**See page 5-1 for starting instructions prior to starting the engine.**

EAU39861

## Speed limiter

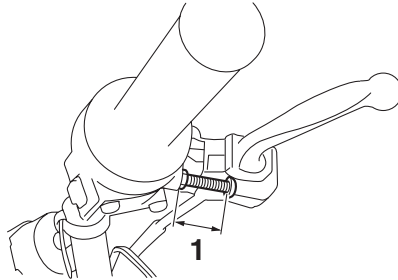
Your motorcycle was delivered with an adjustable speed limiter. The speed limiter keeps the throttle from fully opening, even when the throttle grip is turned to the maximum.

1. Loosen the locknut.
2. To increase the maximum engine power available and the maximum speed of the motorcycle, turn the adjusting screw in direction (a). To decrease the maximum engine power available and the maximum speed of the motorcycle, turn the adjusting screw in direction (b).



1. Locknut
2. Adjusting screw

3. Tighten the locknut.



1. No more than 25 mm (0.98 in)

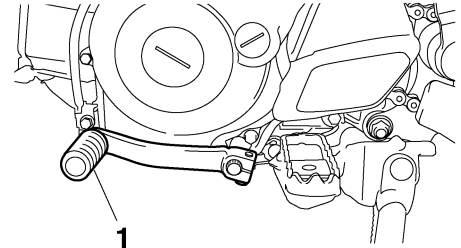
EWA14401

### **⚠ WARNING**

**Improper adjustment of the speed limiter could cause improper throttle operation. You could lose control, have an accident or be injured. Do not turn the adjusting screw out more than 25 mm (0.98 in). Always make sure the throttle cable free play is adjusted to 3.0–5.0 mm (0.12–0.20 in). (See page 6-11.)**

EAU39850

## Shift pedal



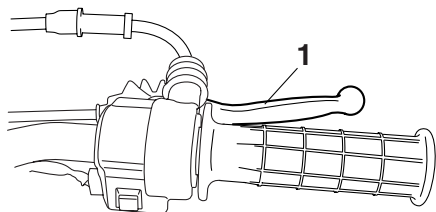
1. Shift pedal

This motorcycle is equipped with a constant-mesh 3-speed transmission. The shift pedal is located on the left side of the engine. Neutral is at the bottom position.

# INSTRUMENT AND CONTROL FUNCTIONS

## Brake lever

EAU12890



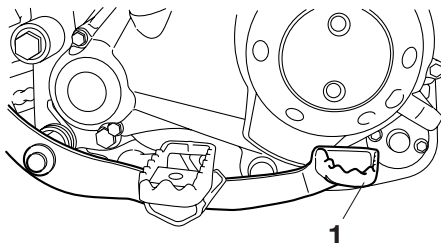
3

### 1. Brake lever

The brake lever is located at the right handlebar grip. To apply the front brake, pull the lever toward the handlebar grip.

## Brake pedal

EAU12941

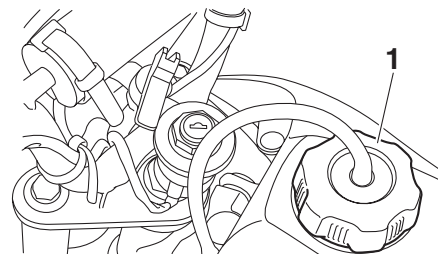


### 1. Brake pedal

The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.

## Fuel tank cap

EAU13181



### 1. Fuel tank cap

To remove the fuel tank cap, turn it counterclockwise, and then pull it off. To install the fuel tank cap, insert it into the tank opening, and then turn it clockwise.

EWA11090

**! WARNING**

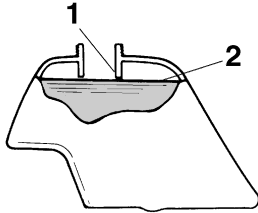
**Make sure that the fuel tank cap is properly closed before riding.**



# INSTRUMENT AND CONTROL FUNCTIONS

## Fuel

EAU13211



1. Fuel tank filler tube
2. Fuel level

Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown.

EWA10880

### **WARNING**

- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- Avoid spilling fuel on the hot engine.

ECA10070

### **CAUTION:**

**Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.**

EAU41930

### For Canada

#### **Recommended fuel:**

REGULAR UNLEADED GASOLINE ONLY

#### **Fuel tank capacity:**

3.1 L (0.82 US gal) (0.68 Imp.gal)

#### **Fuel reserve amount:**

0.4 L (0.11 US gal) (0.09 Imp.gal)

ECA11400

### **CAUTION:**

**Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.**

Your Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number

[(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance cost.

### **Gasohol**

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or vehicle performance problems.

### For Europe, Oceania and South Africa

#### **Recommended fuel:**

For Europe: REGULAR UNLEADED GASOLINE ONLY

For Oceania and South Africa: UNLEADED GASOLINE ONLY

#### **Fuel tank capacity:**

3.1 L (0.82 US gal) (0.68 Imp.gal)

#### **Fuel reserve amount:**

0.4 L (0.11 US gal) (0.09 Imp.gal)

# INSTRUMENT AND CONTROL FUNCTIONS

ECA11400

## CAUTION:

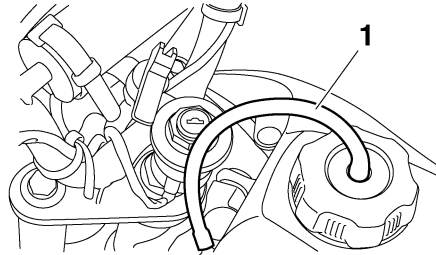
Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

3

Your Yamaha engine has been designed to use regular unleaded gasoline with a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

EAU13412

## Fuel tank breather hose



1. Fuel tank breather hose

Before operating the motorcycle:

- Check the fuel tank breather hose connection.
- Check the fuel tank breather hose for cracks or damage, and replace it if damaged.
- Make sure that the fuel tank breather hose is not blocked, and clean it if necessary.

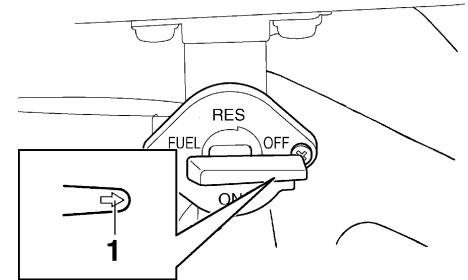
EAU13561

## Fuel cock

The fuel cock supplies fuel from the tank to the carburetor while filtering it also.

The fuel cock has three positions:

### OFF

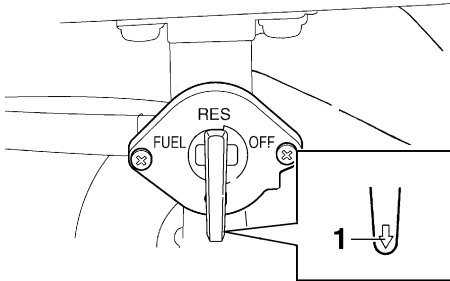


1. Arrow mark positioned over "OFF"

With the lever in this position, fuel will not flow. Always return the lever to this position when the engine is not running.

# INSTRUMENT AND CONTROL FUNCTIONS

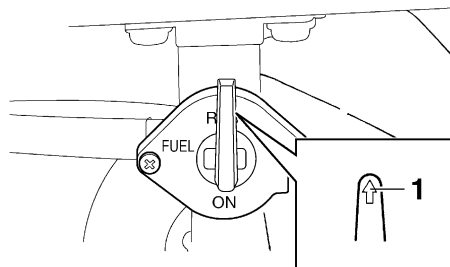
## ON



1. Arrow mark positioned over "ON"

With the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.

## RES

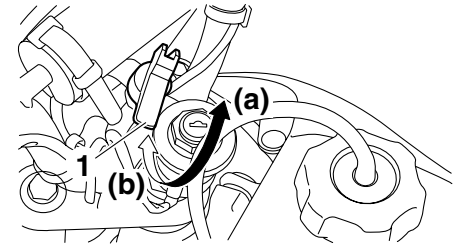


1. Arrow mark positioned over "RES"

This indicates reserve. If you run out of fuel while riding, move the lever to this position. Fill the tank at the first opportunity. Be sure to set the lever back to "ON" after refueling!

## Starter (choke) lever " |> | "

EAU13590



1. Starter (choke) lever " |> | "

Starting a cold engine requires a richer air-fuel mixture, which is supplied by the starter (choke).

Move the lever in direction (a) to turn on the starter (choke).

Move the lever in direction (b) to turn off the starter (choke).

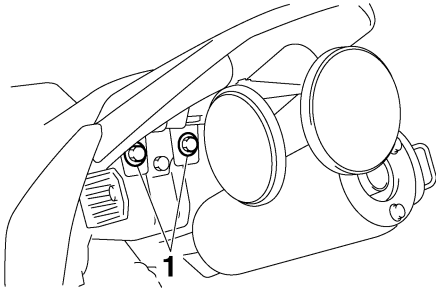
# INSTRUMENT AND CONTROL FUNCTIONS

## Seat

EAU13960

### To remove the seat

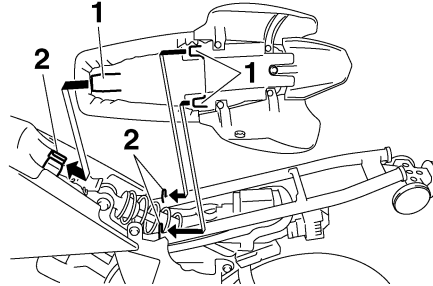
Remove the bolts, and then pull the seat off.



1. Bolt

### To install the seat

1. Insert the projections on the front of the seat into the seat holders as shown.



1. Projection
2. Seat holder

2. Place the seat in the original position, and then tighten the bolts.

### NOTE:

Make sure that the seat is properly secured before riding.

## Sidestand

EAU37490

The sidestand is located on the left side of the frame. Raise the sidestand or lower it with your foot while holding the vehicle upright.

EWA14190

### **WARNING**

**The vehicle must not be ridden with the sidestand down, or if the sidestand cannot be properly moved up (or does not stay up), otherwise the sidestand could contact the ground and distract the operator, resulting in a possible loss of control.**

EAU41610

## Starting circuit cut-off system

The starting circuit cut-off system prevents starting when the transmission is in gear.

Periodically check the operation of the starting circuit cut-off system according to the following procedure.

EWA10250



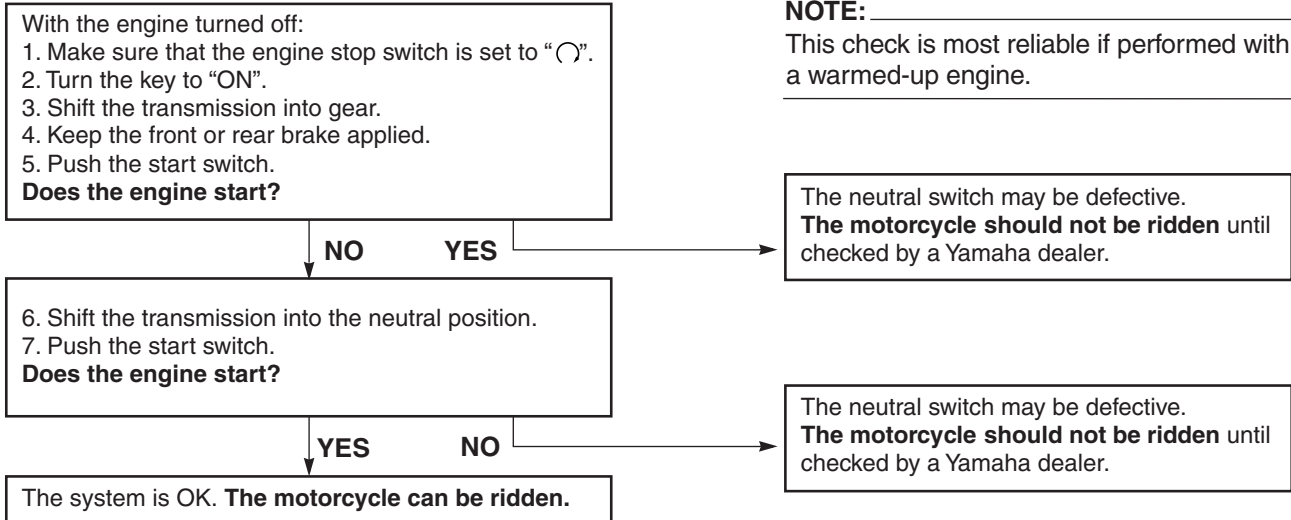
---

**If a malfunction is noted, have a Yamaha dealer check the system before riding.**

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# INSTRUMENT AND CONTROL FUNCTIONS

3



# PRE-OPERATION CHECKS

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EAU15593

The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

## NOTE:

Pre-operation checks should be made each time the vehicle is used. Such an inspection can be accomplished in a very short time; and the added safety it assures is more than worth the time involved.

EWA11150



**If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the vehicle.**

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# PRE-OPERATION CHECKS

EAU15605

## Pre-operation check list

ITEM	CHECKS	PAGE
<b>Fuel</b>	<ul style="list-style-type: none"><li>• Check fuel level in fuel tank.</li><li>• Refuel if necessary.</li><li>• Check fuel line for leakage.</li></ul>	3-4
<b>Engine oil</b>	<ul style="list-style-type: none"><li>• Check oil level in engine.</li><li>• If necessary, add recommended oil to specified level.</li><li>• Check vehicle for oil leakage.</li></ul>	6-6
<b>Front brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• Lubricate cable if necessary.</li><li>• Check lever free play.</li><li>• Adjust if necessary.</li></ul>	6-15, 6-16
<b>Rear brake</b>	<ul style="list-style-type: none"><li>• Check operation.</li><li>• Check pedal free play.</li><li>• Adjust if necessary.</li></ul>	6-16, 6-16
<b>Throttle grip</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Check cable free play.</li><li>• If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing.</li></ul>	6-11, 6-20
<b>Control cables</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Lubricate if necessary.</li></ul>	6-19
<b>Drive chain</b>	<ul style="list-style-type: none"><li>• Check chain slack.</li><li>• Adjust if necessary.</li><li>• Check chain condition.</li><li>• Lubricate if necessary.</li></ul>	6-17, 6-19
<b>Wheels and tires</b>	<ul style="list-style-type: none"><li>• Check for damage.</li><li>• Check tire condition and tread depth.</li><li>• Check air pressure.</li><li>• Correct if necessary.</li></ul>	6-12, 6-14
<b>Shift pedal</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Correct if necessary.</li></ul>	6-20



# PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
<b>Brake pedal</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Lubricate pedal pivoting point if necessary.</li></ul>	6-20
<b>Brake lever</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Lubricate lever pivoting point if necessary.</li></ul>	6-20
<b>Sidestand</b>	<ul style="list-style-type: none"><li>• Make sure that operation is smooth.</li><li>• Lubricate pivot if necessary.</li></ul>	6-21
<b>Chassis fasteners</b>	<ul style="list-style-type: none"><li>• Make sure that all nuts, bolts and screws are properly tightened.</li><li>• Tighten if necessary.</li></ul>	—
<b>Engine stop switch</b>	<ul style="list-style-type: none"><li>• Check operation.</li></ul>	3-1

# OPERATION AND IMPORTANT RIDING POINTS

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EAU41680

EAU40091

ECA11130

EWA14620

## **WARNING**

- This model is designed for off-road use only. Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
  - Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation.
  - Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control.
- 

## Starting and warming up a cold engine

1. Turn the fuel cock lever to “ON”.
2. Turn the key to “ON” and make sure that the engine stop switch is set to “○”.
3. Shift the transmission into the neutral position.

EWA14410

## **WARNING**

- Be sure to shift the transmission into neutral before starting the engine.
  - Never ride with the sidestand down.
- 
4. Turn the starter (choke) on and completely close the throttle. (See page 3-6.)
  5. Start the engine by pushing the start switch.
  6. After starting the engine, move the starter (choke) back halfway.

## **CAUTION:**

**For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!**

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7. When the engine is warm, turn the starter (choke) off.

## **NOTE:**

The engine is warm when it responds normally to the throttle with the starter (choke) turned off.

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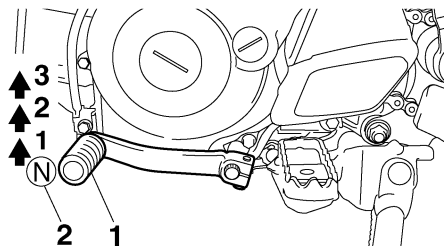
## Starting a warm engine

EAU16640

Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm.

## Shifting

EAU39901



1. Shift pedal
2. Neutral position

This motorcycle has a 3-speed transmission with a centrifugal, automatic clutch. Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc.

The gear positions are shown in the illustration.

### NOTE:

To shift the transmission into the neutral position, press the shift pedal down repeatedly until it reaches the end of its travel.

### CAUTION:

- Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.
- Always release the throttle grip before changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of shifting when the throttle grip is open.

EAU39910

### To start out and accelerate

1. Close the throttle.
2. Shift into first gear and release the shift pedal.

# OPERATION AND IMPORTANT RIDING POINTS

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ECA15460

## **CAUTION:**

**Always close the throttle before shifting gears, otherwise damage to the engine and drive train may result.**

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3. Open the throttle gradually.
4. Once the motorcycle has reached a speed high enough to change gears, close the throttle.
5. Shift into second gear and release the shift pedal.
6. Open the throttle gradually.
7. Follow the same procedure when shifting to the next higher gear.

5

## **To decelerate**

EAU16710

1. Close the throttle and apply both the front and the rear brakes to slow the motorcycle.
2. Downshift through the gears and shift the transmission into the neutral position when the motorcycle is almost completely stopped.

EAU39920

## **Engine break-in**

There is never a more important period in the life of your engine than the first 5 hours of riding. It is also important to acustom the rider to the motorcycle during this time. Please read the following information carefully.

Since the engine is brand new, do not put an excessive load on it for the first 5 hours of operation. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided. However, momentary full-throttle operation under load (i.e., two to three seconds maximum) does not harm the engine. Each full-throttle acceleration should be followed with a substantial rest period for the engine. To allow the engine to cool down from the temporary buildup of heat, cruise at a lower engine speed.

After the first 5 hours of operation, thoroughly check the motorcycle for loose parts, oil leakage and any other problems. Be sure to inspect and make ad-

justments thoroughly, especially cable and drive chain slack and loose spokes. In addition, check all fittings and fasteners for looseness, and tighten if necessary.

ECA10270

## **CAUTION:**

**If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle.**

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EAU17170

## Parking

When parking, stop the engine, remove the key from the main switch, and then turn the fuel cock lever to “OFF”.

EWA10310

### **WARNING**

- **Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them.**
  - **Do not park on a slope or on soft ground, otherwise the vehicle may overturn.**
-

# PERIODIC MAINTENANCE AND MINOR REPAIR

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EAU17231

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of motorcycle inspection, adjustment, and lubrication are explained on the following pages.

**Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual that is certified (if applicable).**

EWA10320

## **WARNING**

**If you are not familiar with maintenance work, have a Yamaha dealer do it for you.**

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EAU40350

## PERIODIC MAINTENANCE

PROPER PERIODIC MAINTENANCE OF YOUR VEHICLE IS IMPORTANT IN ORDER TO ENJOY LONG, PLEASURABLE SERVICE. ESPECIALLY IMPORTANT ARE THE MAINTENANCE SERVICES RELATED TO EMISSIONS CONTROL. THESE CONTROLS NOT ONLY FUNCTION TO ENSURE CLEANER AIR, BUT ARE ALSO VITAL TO PROPER ENGINE OPERATION AND MAXIMUM PERFORMANCE. IN THE FOLLOWING PERIODIC MAINTENANCE CHARTS, THE SERVICES RELATED TO EMISSIONS CONTROL ARE GROUPED SEPARATELY. THESE SERVICES REQUIRE SPECIALIZED DATA, KNOWLEDGE, AND EQUIPMENT. YAMAHA DEALERS ARE TRAINED AND EQUIPPED TO PERFORM THESE PARTICULAR SERVICES.

EWA10340

## **WARNING**

**Modifications not approved by Yamaha may cause loss of performance, excessive emissions, and**

**render the vehicle unsafe for use. Consult a Yamaha dealer before attempting any changes.**

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# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU39943

## Periodic maintenance chart for the emission control system

### NOTE:

- From 7000 km (4200 mi) or 18 months, repeat the maintenance intervals starting from 3000 km (1800 mi) or 6 months.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL	ODOMETER READINGS	
			1000 km (600 mi) or 1 month or 30 hours	3000 km (1800 mi) or 6 months or 90 hours	5000 km (3000 mi) or 12 months or 150 hours
1	* Fuel line	<ul style="list-style-type: none"> <li>• Check fuel hoses for cracks or damage.</li> <li>• Replace if necessary.</li> </ul>		√	√
2	Spark plug	<ul style="list-style-type: none"> <li>• Check condition.</li> <li>• Adjust gap and clean.</li> </ul>		√	√
3	* Valve clearance	<ul style="list-style-type: none"> <li>• Check and adjust valve clearance when engine is cold.</li> </ul>			√
4	* Air filter element	<ul style="list-style-type: none"> <li>• Clean with solvent.</li> <li>• Replace if necessary.</li> </ul>		√	√
5	* Crankcase breather system	<ul style="list-style-type: none"> <li>• Check ventilation hose for cracks or damage and drain any deposits.</li> <li>• Replace if necessary.</li> </ul>	√	√	√
6	* Carburetor	<ul style="list-style-type: none"> <li>• Check engine idling speed and starter operation.</li> <li>• Adjust if necessary.</li> </ul>	√	√	√
7	Exhaust system	<ul style="list-style-type: none"> <li>• Check for leakage.</li> <li>• Tighten if necessary.</li> <li>• Replace gasket(s) if necessary.</li> </ul>		√	√
8	Engine oil	<ul style="list-style-type: none"> <li>• Change (warm engine before draining).</li> </ul>	√	√	√

# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU35348

## General maintenance and lubrication chart

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL	ODOMETER READINGS	
			1000 km (600 mi) or 1 month or 30 hours	3000 km (1800 mi) or 6 months or 90 hours	5000 km (3000 mi) or 12 months or 150 hours
1	* Clutch	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Adjust if necessary.</li> </ul>	√	√	√
2	* Front brake	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Adjust brake lever free play and replace brake shoes if necessary.</li> </ul>	√	√	√
3	* Rear brake	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Adjust brake pedal free play and replace brake shoes if necessary.</li> </ul>	√	√	√
4	* Wheels	<ul style="list-style-type: none"> <li>• Check runout, spoke tightness and for damage.</li> <li>• Tighten spokes if necessary.</li> </ul>	√	√	√
5	* Tires	<ul style="list-style-type: none"> <li>• Check tread depth and for damage.</li> <li>• Replace if necessary.</li> <li>• Check air pressure.</li> <li>• Correct if necessary.</li> </ul>		√	√
6	* Wheel bearings	<ul style="list-style-type: none"> <li>• Check bearings for smooth operation.</li> <li>• Replace if necessary.</li> </ul>		√	√
7	* Swingarm pivot bearings	<ul style="list-style-type: none"> <li>• Check bearing assemblies for looseness.</li> <li>• Moderately repack with lithium-soap-based grease.</li> </ul>		√	√
8	Drive chain	<ul style="list-style-type: none"> <li>• Check chain slack/alignment and condition.</li> <li>• Adjust and lubricate chain with Yamaha chain and cable lube thoroughly.</li> </ul>	Every ride		
9	* Steering bearings	<ul style="list-style-type: none"> <li>• Check bearing assemblies for looseness.</li> <li>• Moderately repack with lithium-soap-based grease.</li> </ul>	√		√

6



# PERIODIC MAINTENANCE AND MINOR REPAIR

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL	ODOMETER READINGS	
			1000 km (600 mi) or 1 month or 30 hours	3000 km (1800 mi) or 6 months or 90 hours	5000 km (3000 mi) or 12 months or 150 hours
10	* Chassis fasteners	<ul style="list-style-type: none"> <li>• Check all chassis fitting and fasteners.</li> <li>• Correct if necessary.</li> </ul>	√	√	√
11	Brake lever pivot shaft	<ul style="list-style-type: none"> <li>• Apply lithium-soap-based grease (all-purpose grease) lightly.</li> </ul>		√	√
12	Brake pedal pivot shaft	<ul style="list-style-type: none"> <li>• Apply lithium-soap-based grease (all-purpose grease) lightly.</li> </ul>		√	√
13	Sidestand pivot	<ul style="list-style-type: none"> <li>• Check operation.</li> <li>• Apply lithium-soap-based grease (all-purpose grease) lightly.</li> </ul>	√		√
14	* Spark arrester	<ul style="list-style-type: none"> <li>• Clean.</li> </ul>			√
15	* Front fork	<ul style="list-style-type: none"> <li>• Check operation and for grease leakage.</li> <li>• Replace if necessary.</li> </ul>		√	√
16	* Shock absorber assembly	<ul style="list-style-type: none"> <li>• Check operation and for oil leakage.</li> <li>• Replace if necessary.</li> </ul>			√
17	* Control cables	<ul style="list-style-type: none"> <li>• Apply Yamaha chain and cable lube or engine oil 10W-30 thoroughly.</li> </ul>	√	√	√
18	* Throttle grip housing and cable	<ul style="list-style-type: none"> <li>• Check operation and free play.</li> <li>• Adjust the throttle cable free play if necessary.</li> <li>• Lubricate the throttle grip housing and cable.</li> </ul>	√	√	√

**NOTE:** \_\_\_\_\_

The air filter needs more frequent service if you are riding in unusually wet or dusty areas.

# PERIODIC MAINTENANCE AND MINOR REPAIR

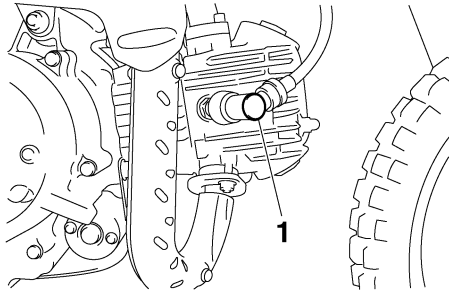
EAU19612

## Checking the spark plug

The spark plug is an important engine component, which is easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark plug should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plug can reveal the condition of the engine.

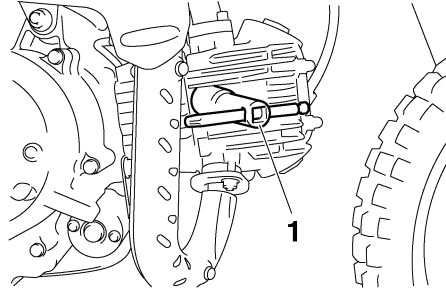
### To remove the spark plug

1. Remove the spark plug cap.



1. Spark plug cap

2. Remove the spark plug as shown, with a spark plug wrench available at a Yamaha dealer.



1. Spark plug wrench

### To check the spark plug

1. Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the vehicle is ridden normally).

#### NOTE:

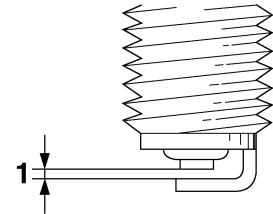
If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary.

**Specified spark plug:**  
NGK/CR7HSA

### To install the spark plug

1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.



1. Spark plug gap

**Spark plug gap:**  
0.6–0.7 mm (0.024–0.028 in)

# PERIODIC MAINTENANCE AND MINOR REPAIR

2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

## Tightening torque:

Spark plug:  
12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

## NOTE: \_\_\_\_\_

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

4. Install the spark plug cap.

## Engine oil

EAU39840

The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart.

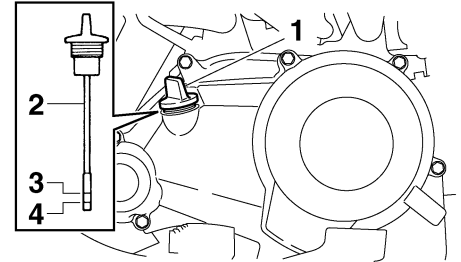
## To check the engine oil level

1. Place the motorcycle on a level surface and hold it in an upright position.

## NOTE: \_\_\_\_\_

Make sure that the motorcycle is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading.

2. Start the engine, warm it up for several minutes, and then turn it off.
3. Wait a few minutes until the oil settles, remove the oil filler cap, wipe the dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.



1. Engine oil filler cap
2. Dipstick
3. Maximum level mark
4. Minimum level mark

## NOTE: \_\_\_\_\_

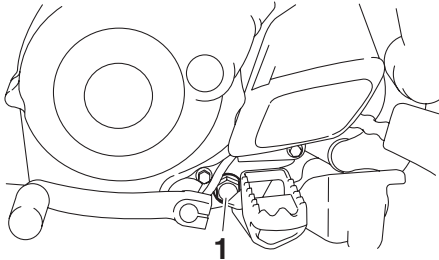
The engine oil should be between the minimum and maximum level marks.

4. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

# PERIODIC MAINTENANCE AND MINOR REPAIR

## To change the engine oil

1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.
3. Remove the engine oil filler cap and drain bolt to drain the oil from the crankcase.



1. Engine oil drain bolt
4. Install the engine oil drain bolt, and then tighten it to the specified torque.

### Tightening torque:

Engine oil drain bolt:  
20 Nm (2.0 m·kgf, 14 ft·lbf)

5. Add the specified amount of the recommended engine oil, and then install and tighten the engine oil filler cap.

Recommended engine oil:  
See page 8-1.  
Oil change quantity:  
0.80 L (0.85 US qt) (0.70 Imp.qt)

ECA11620

### CAUTION:

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.
- Make sure that no foreign material enters the crankcase.

6. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.

7. Turn the engine off, and then check the oil level and correct it if necessary.

# PERIODIC MAINTENANCE AND MINOR REPAIR

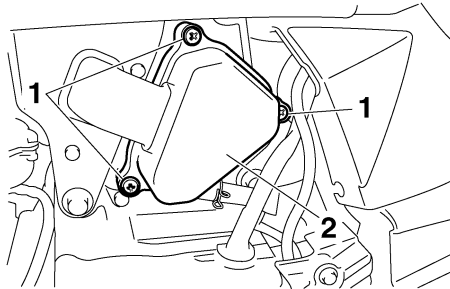
EAU39832

## Cleaning the air filter element

The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

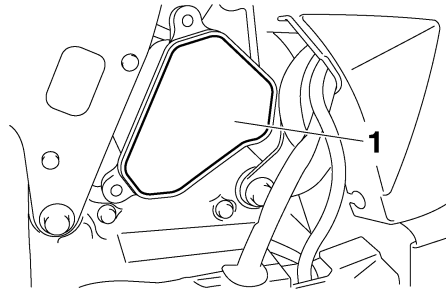
### To clean the air filter element

1. Remove the air filter case cover by removing the screws.

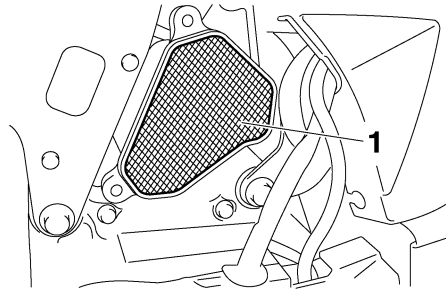


1. Screw
2. Air filter case cover

2. Pull the sponge material and the mesh out.



1. Sponge material



1. Air filter mesh

3. Clean the mesh with solvent, and then wipe the solvent off.
4. Clean the sponge material with solvent, and then squeeze the remaining solvent out.

## WARNING

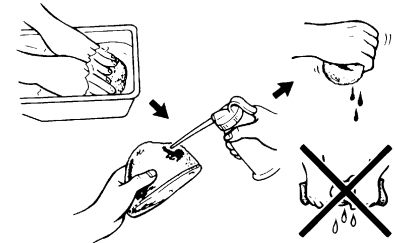
Use only a dedicated parts cleaning solvent. To avoid the risk of fire or explosion, do not use gasoline or solvents with a low flash point.

EWA10430

## CAUTION:

ECA10510

To avoid damaging the foam material, handle it gently and carefully, and do not twist or wring it.



5. Apply oil of the recommended type to the entire surface of the sponge material, and then squeeze the excess oil out.

# PERIODIC MAINTENANCE AND MINOR REPAIR

## NOTE: \_\_\_\_\_

The sponge material should be wet but not dripping.

### Recommended oil:

Yamaha foam air filter oil or other quality foam air filter oil

6. Insert the mesh and the sponge material into the air filter case.

ECA15571

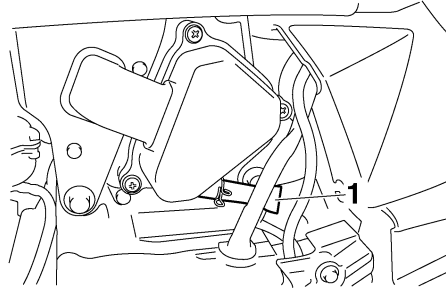
## CAUTION: \_\_\_\_\_

- **Make sure that the mesh and the sponge material are properly seated in the air filter case.**
- **The engine should never be operated without the mesh and the sponge material installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.**

7. Install the air filter case cover by installing the screws.

## To clean the air filter check hose

1. Check the hose at the bottom of the air filter case for accumulated dirt or water.



1. Air filter check hose

2. If dirt or water is visible, remove the hose, clean it, and then install it.

EAU40421

## Cleaning the spark arrester

The spark arrester should be cleaned at the intervals specified in the periodic maintenance and lubrication chart.

EWA10980

## **⚠ WARNING** \_\_\_\_\_

- **Always let the exhaust system cool prior to touching exhaust components.**
- **Do not start the engine when cleaning the exhaust system.**

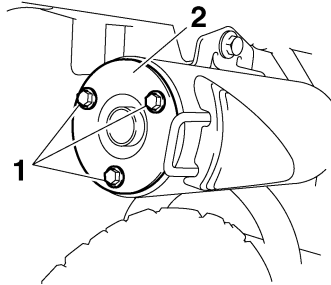
## NOTE: \_\_\_\_\_

Make sure to select a well-ventilated area free of combustible materials to clean the spark arrester.

1. Remove the tailpipe by removing the bolts, and then pulling it out of the muffler.

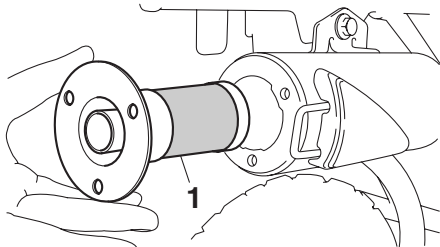
# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU39930



- 1. Bolt
- 2. Tailpipe

2. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe and inside of the tailpipe housing.



- 1. Spark arrester

3. Insert the tailpipe into the muffler, and then install and tighten the bolts to the specified torque.

### Tightening torque:

Tailpipe bolt:  
10 Nm (1.0 m·kgf, 7.2 ft·lbf)

**NOTE:** \_\_\_\_\_  
Make sure to align the bolt holes when inserting the tailpipe.  
\_\_\_\_\_

## Adjusting the carburetor

The carburetor is an important part of the engine and requires very sophisticated adjustment. Therefore, most carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. The adjustment described in the following section, however, may be serviced by the owner as part of routine maintenance.

ECA10550

**CAUTION:** \_\_\_\_\_

**The carburetor has been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine.**

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Adjusting the engine idling speed

EAU21360

The engine idling speed must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart.

### NOTE:

A diagnostic tachometer is needed to make this adjustment.

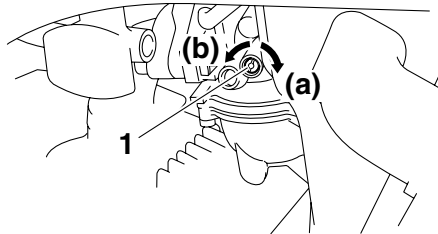
1. Attach the tachometer to the spark plug lead.
2. Start the engine and warm it up for several minutes at 1000–2000 r/min while occasionally revving it to 4000–5000 r/min.

### NOTE:

The engine is warm when it quickly responds to the throttle.

3. Check the engine idling speed and, if necessary, adjust it to specification by turning the throttle stop screw. To increase the engine idling speed, turn the screw in di-

rection (a). To decrease the engine idling speed, turn the screw in direction (b).



1. Throttle stop screw

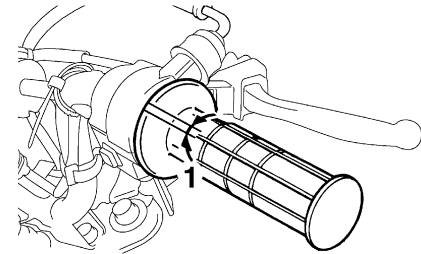
**Engine idling speed:**  
1600–1800 r/min

### NOTE:

If the specified idling speed cannot be obtained as described above, have a Yamaha dealer make the adjustment.

## Adjusting the throttle cable free play

EAU21370



1. Throttle cable free play

The throttle cable free play should measure 3.0–5.0 mm (0.12–0.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, adjust it as follows.

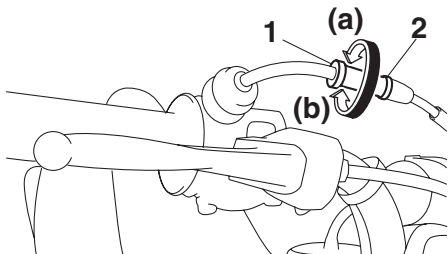
### NOTE:

The engine idling speed must be correctly adjusted before checking and adjusting the throttle cable free play.

1. Loosen the locknut.



2. To increase the throttle cable free play, turn the adjusting nut in direction (a). To decrease the throttle cable free play, turn the adjusting nut in direction (b).



1. Locknut
2. Throttle cable free play adjusting nut
3. Tighten the locknut.

## Valve clearance

The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

EAU21401

## Tires

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires.

EAU39820

### Tire air pressure

The tire air pressure should be checked and, if necessary, adjusted before each ride.

EWA14380

### **! WARNING**

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
- The tire air pressure must be adjusted in accordance with the weight of the rider, the riding speed, and the riding conditions.

#### Standard tire air pressure:

Front:

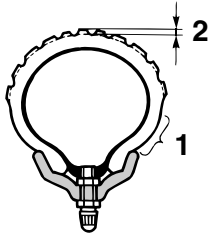
100 kPa (15 psi) (1.00 kgf/cm<sup>2</sup>)

Rear:

100 kPa (15 psi) (1.00 kgf/cm<sup>2</sup>)

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Tire inspection



1. Tire sidewall
2. Tire tread depth

The tires must be checked before each ride. If the center tread depth reaches the specified limit, if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a Yamaha dealer replace the tire immediately.

**Minimum tire tread depth (front and rear):**  
4.0 mm (0.16 in)

## Tire information

This motorcycle is equipped with spoke wheels and tube tires.

EWA10460

### **WARNING**

- The front and rear tires should be of the same make and design, otherwise the handling characteristics of the vehicle cannot be guaranteed.
- After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd.

#### Front tire:

Size:  
2.50-10 4PR  
Manufacturer/model:  
CHENG SHIN/KNOBBY

#### Rear tire:

Size:  
2.50-10 4PR  
Manufacturer/model:  
CHENG SHIN/KNOBBY

EWA14390

### **WARNING**

- Have a Yamaha dealer replace excessively worn tires. Operating the motorcycle with exces-

sively worn tires decreases riding stability and can lead to loss of control.

- The replacement of all wheel- and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.
- It is not recommended to patch a punctured tube. If unavoidable, however, patch the tube very carefully and replace it as soon as possible with a high-quality product.

## Spoke wheels

EAU21940

To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified wheels.

- The wheel rims should be checked for cracks, bends or warpage, and the spokes for looseness or damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life.
- Ride at moderate speeds after changing a tire since the tire surface must first be “broken in” for it to develop its optimal characteristics.

## Accessories and replacement parts

EAU40431

EWA14481

### **⚠ WARNING**

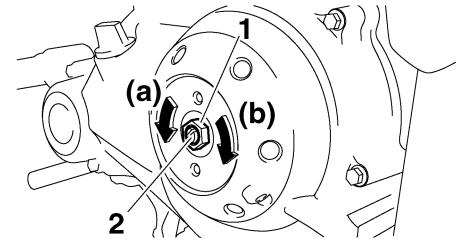
The accessories or replacement parts you choose for your vehicle should be designed specifically for this model, and they must be securely mounted to maintain the inherent stability of the original design. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your vehicle. Yamaha recommends the use of Genuine Yamaha Parts and Accessories before making a purchase. Use of non-Yamaha-approved accessories or replacement parts may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of accessories or parts manufactured by other companies, Yamaha cannot be held liable for any consequences caused by the use of items which have not been approved by Yamaha.

## Adjusting the clutch free play

EAU44661

The clutch free play must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart.

1. Loosen the locknut.
2. Slowly turn the clutch adjusting screw in direction (a) until resistance is felt, and then turn it 1/8 turn in direction (b).



1. Locknut
2. Clutch adjusting screw

**NOTE:** Turning the clutch adjusting screw in direction (a) decreases clutch free play and turning it in direction (b) increases clutch free play.

# PERIODIC MAINTENANCE AND MINOR REPAIR

3. Tighten the locknut to the specified torque.

## Tightening torque:

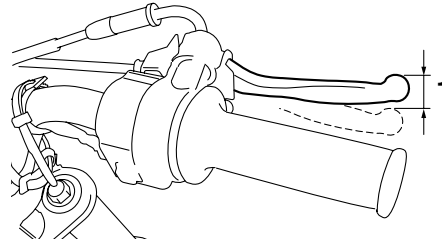
Locknut:  
6 Nm (0.6 m·kgf, 4.3 ft·lbf)

## NOTE:

When tightening the locknut, hold the clutch adjusting screw with a screwdriver so that it does not turn together with the locknut.

## Adjusting the brake lever free play

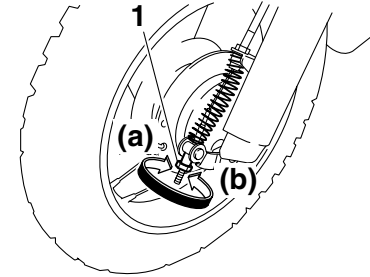
EAU22130



1. Brake lever free play

The brake lever free play should measure 10.0–20.0 mm (0.39–0.79 in) as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows.

To increase the brake lever free play, turn the adjusting nut at the brake shoe plate in direction (a). To decrease the brake lever free play, turn the adjusting nut in direction (b).



1. Brake lever free play adjusting nut

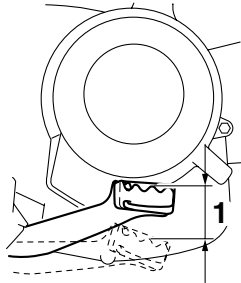
EWA10650

## WARNING

If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.

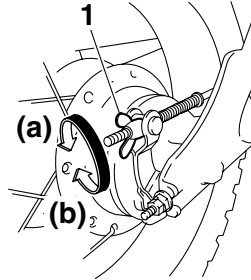
## Adjusting the brake pedal free play

EAU44670



1. Brake pedal free play

The brake pedal free play should measure 10.0–20.0 mm (0.39–0.79 in) at the brake pedal end as shown. Periodically check the brake pedal free play and, if necessary, adjust it as follows. To increase the brake pedal free play, turn the adjusting nut at the brake rod in direction (a). To decrease the brake pedal free play, turn the adjusting nut in direction (b).



1. Brake pedal free play adjusting nut

### **! WARNING**

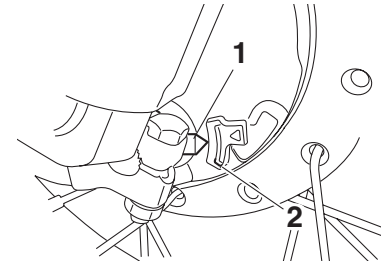
- After adjusting the drive chain slack or removing and installing the rear wheel, always check the brake pedal free play.
- If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.

EWA14820

## Checking the front and rear brake shoes

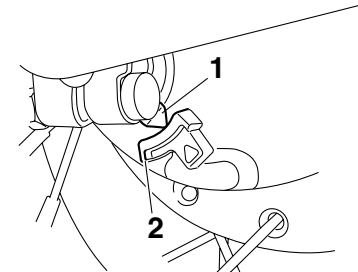
EAU22361

### Front



1. Brake shoe wear indicator
2. Brake shoe wear limit line

### Rear



1. Brake shoe wear indicator
2. Brake shoe wear limit line

# PERIODIC MAINTENANCE AND MINOR REPAIR

The front and rear brake shoes must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches the wear limit line, have a Yamaha dealer replace the brake shoes as a set.

6

## Drive chain slack

EAU22760

The drive chain slack should be checked before each ride and adjusted if necessary.

### To check the drive chain slack

EAU22773

1. Place the motorcycle on the side-stand.

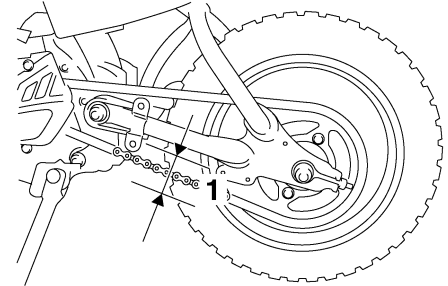
#### NOTE:

When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

2. Shift the transmission into the neutral position.
3. Move the rear wheel by pushing the motorcycle to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown.

#### Drive chain slack:

35.0–45.0 mm (1.38–1.77 in)



1. Drive chain slack

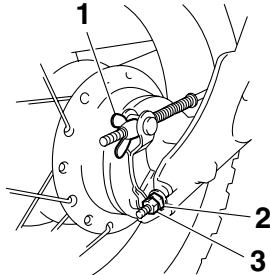
4. If the drive chain slack is incorrect, adjust it as follows.

### To adjust the drive chain slack

EAU40110

1. Loosen the brake pedal free play adjusting nut, axle nut, and locknut at each end of the swingarm.

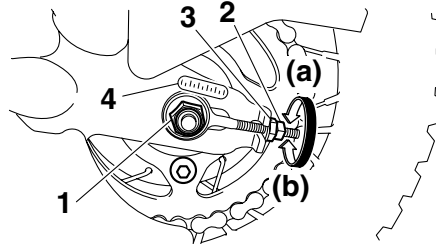
# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Brake pedal free play adjusting nut
2. Drive chain slack adjusting nut
3. Locknut

2. To tighten the drive chain, turn the adjusting nut at each end of the swingarm in direction (a). To loosen the drive chain, turn the adjusting nut at each end of the swingarm in direction (b), and then push the rear wheel forward.

**NOTE:** \_\_\_\_\_  
Using the alignment marks on each side of the swingarm, make sure that both adjusting nuts are in the same position for proper wheel alignment.



1. Axle nut
2. Locknut
3. Drive chain slack adjusting nut
4. Alignment marks

ECA10570

## **CAUTION:** \_\_\_\_\_

**Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.**

3. Tighten both locknuts and the axle nut to the specified torques.

## **Tightening torques:**

Locknut:

7.0 Nm (0.7 m·kgf, 5.1 ft·lbf)

Axle nut:

60 Nm (6.0 m·kgf, 43 ft·lbf)

4. Adjust the brake pedal free play. (See page 6-16.)

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Cleaning and lubricating the drive chain

EAU23013

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.

ECA10581

### CAUTION:

**The drive chain must be lubricated after washing the motorcycle and riding in the rain.**

1. Remove all dirt and mud from the drive chain with a brush or cloth.

### NOTE:

For a thorough cleaning, have a Yamaha dealer remove the drive chain and soak it in solvent.

2. Spray Yamaha Chain and Cable Lube or a high-quality spray-type drive chain lubricant on both sides and on the middle of the chain,

making sure that all side plates and rollers have been sufficiently oiled.

## Checking and lubricating the cables

EAU23091

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

### Recommended lubricant:

Yamaha Chain and Cable Lube or engine oil SAE 10W-30

### WARNING

EWA10710

**Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.**



# PERIODIC MAINTENANCE AND MINOR REPAIR

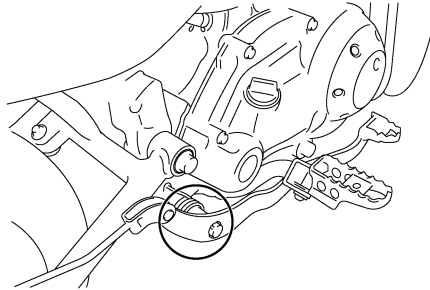
## Checking and lubricating the throttle grip and cable

EAU23111

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated at the intervals specified in the periodic maintenance chart.

## Checking and lubricating the brake and shift pedals

EAU44270



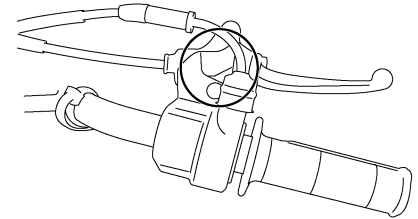
The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary.

### Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

## Checking and lubricating the brake lever

EAU43620



The operation of the brake lever should be checked before each ride, and the lever pivots should be lubricated if necessary.

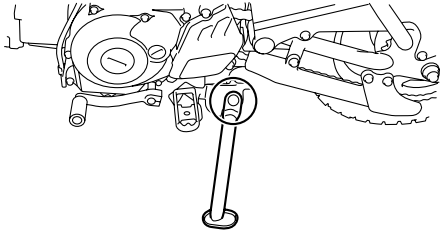
### Recommended lubricant:

Lithium-soap-based grease (all-purpose grease)

# PERIODIC MAINTENANCE AND MINOR REPAIR

## Checking and lubricating the sidestand

EAU23200



The operation of the sidestand should be checked before each ride, and the sidestand pivot and metal-to-metal contact surfaces should be lubricated if necessary.

EWA10730

### **⚠ WARNING**

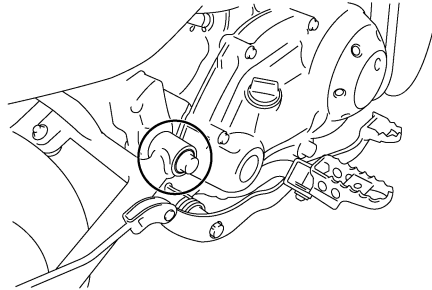
**If the sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it.**

#### **Recommended lubricant:**

Lithium-soap-based grease (all-purpose grease)

## Lubricating the swingarm pivots

EAU1650



The swingarm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

**Recommended lubricant:**  
Lithium-soap-based grease

## Checking the front fork

EAU42080

The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

### To check the condition

EWA10750

#### **⚠ WARNING**

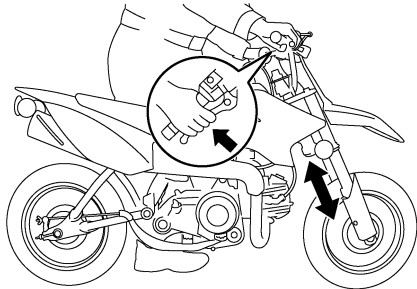
**Securely support the vehicle so that there is no danger of it falling over.**

Check the inner tubes for scratches and damage.

### To check the operation

1. Place the vehicle on a level surface and hold it in an upright position.
2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

# PERIODIC MAINTENANCE AND MINOR REPAIR



ECA10590

## CAUTION:

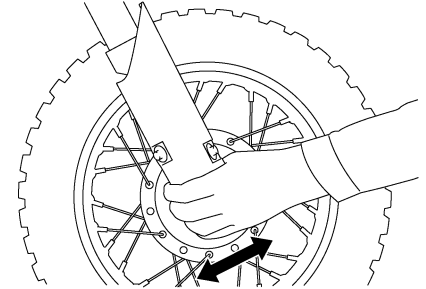
If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

## Checking the steering

EAU23280

Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

1. Place a stand under the engine to raise the front wheel off the ground.



EWA10750

## ⚠ WARNING

Securely support the vehicle so that there is no danger of it falling over.

2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.

# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU23290

## Checking the wheel bearings

The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

EAU40440

## Battery

This model is equipped with a sealed-type (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water.

EWA10760

### WARNING

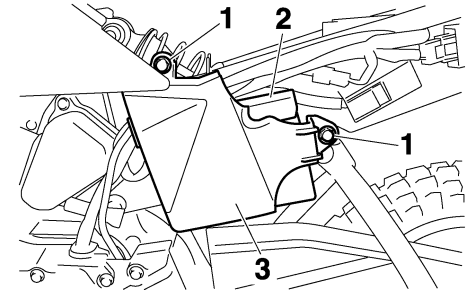
- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
  - **EXTERNAL:** Flush with plenty of water.
  - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.
  - **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc.,**

away from the battery and provide sufficient ventilation when charging it in an enclosed space.

- **KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.**

### To remove the battery

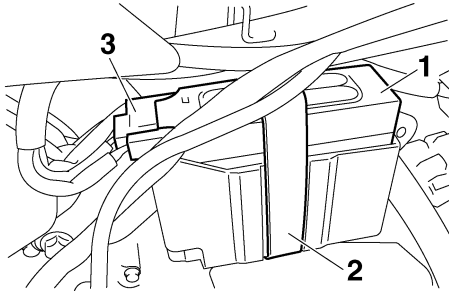
1. Remove the seat. (See page 3-7.)
2. Remove the battery cover by removing the bolts.



1. Bolt
2. Battery
3. Battery cover

3. Unhook the battery band, and then pull the battery out of the battery compartment.

# PERIODIC MAINTENANCE AND MINOR REPAIR



1. Battery
2. Battery band
3. Battery coupler

4. Disconnect the battery coupler.

## To install the battery

1. Connect the battery coupler.
2. Place the battery in the original position, and then hook the battery band onto the holder.
3. Install the battery cover by installing the bolts.
4. Install the seat.

## To charge the battery

Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the

battery tends to discharge more quickly if the vehicle is equipped with optional electrical accessories.

## To store the battery

1. If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
3. Fully charge the battery before installation.

ECA10630

## CAUTION:

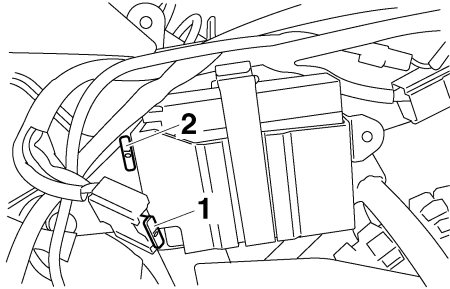
- **Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.**
- **To charge a sealed-type (MF) battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a**

**sealed-type (MF) battery charger, have a Yamaha dealer charge your battery.**

# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU42020

## Replacing the fuse



1. Fuse
2. Spare fuse

The fuse is located inside the battery coupler.

If the fuse is blown, replace it as follows.

1. Turn the key to “OFF” and turn off all electrical circuits.
2. Disconnect the battery coupler.
3. Remove the blown fuse, and then install a new fuse of the specified amperage.

**Specified fuse:**  
10.0 A

ECA10640

### **CAUTION:**

**Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.**

4. Connect the battery coupler.
5. Turn the key to “ON” and turn on the electrical circuits to check if the devices operate.
6. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

EAU24350

## Supporting the motorcycle

Since this model is not equipped with a centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.

### **To service the front wheel**

1. Stabilize the rear of the motorcycle by using a motorcycle stand or, if an additional motorcycle stand is not available, by placing a jack under the frame in front of the rear wheel.
2. Raise the front wheel off the ground by using a motorcycle stand.

### **To service the rear wheel**

Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing

# PERIODIC MAINTENANCE AND MINOR REPAIR

a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm.

## Front wheel

EAU24360

### To remove the front wheel

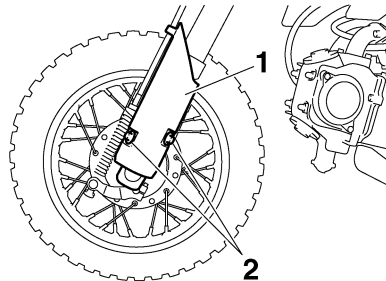
EAU39791

EWA10820

#### **⚠ WARNING**

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

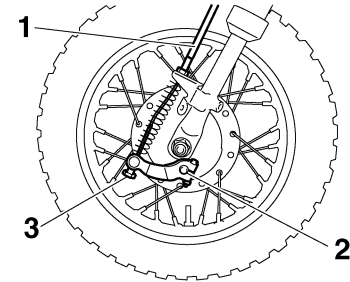
1. Remove the guard from each front fork leg by removing the bolts.



1. Front fork leg guard
2. Bolt

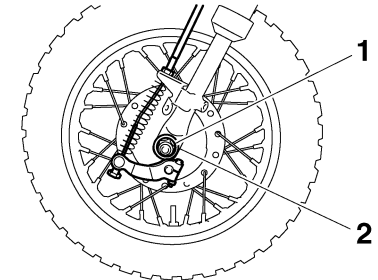
2. Disconnect the brake cable at the wheel by removing the brake lever free play adjusting nut at the brake

camshaft lever, then remove the cable from the brake camshaft lever.



1. Brake cable
2. Brake camshaft lever
3. Brake lever free play adjusting nut

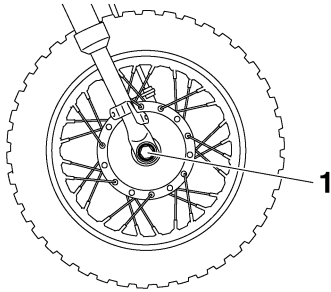
3. Loosen the axle nut.



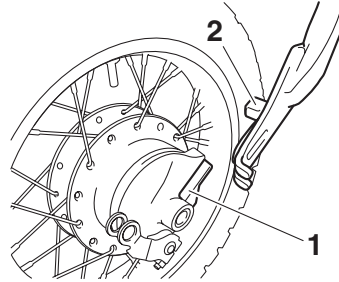
1. Axle nut
2. Washer

# PERIODIC MAINTENANCE AND MINOR REPAIR

4. Lift the front wheel off the ground according to the procedure on page 6-25.
5. Remove the axle nut and washer.
6. Pull the wheel axle out, and then remove the wheel.



1. Wheel axle



1. Slot  
2. Retainer

3. Lower the front wheel so that it is on the ground.
4. Install the washer and axle nut, and then tighten the axle nut to the specified torque.

## Tightening torque:

Axle nut:  
35 Nm (3.5 m·kgf, 25 ft·lbf)

5. Connect the brake cable to the brake camshaft lever, and then install the brake cable free play adjusting nut on the brake cable.
6. Adjust the brake lever free play. (See page 6-15.)

7. While applying the front brake, push down hard on the handlebar several times to check for proper fork operation.
8. Install each front fork leg guard by installing the bolts.

## To install the front wheel

EAU39801

1. Lift the wheel up between the fork legs.
2. Insert the wheel axle from the right-hand side.

### NOTE:

Make sure that the slot in the brake shoe plate fits over the retainer on the fork leg.



# PERIODIC MAINTENANCE AND MINOR REPAIR

## Rear wheel

EAU25080

EAU39770

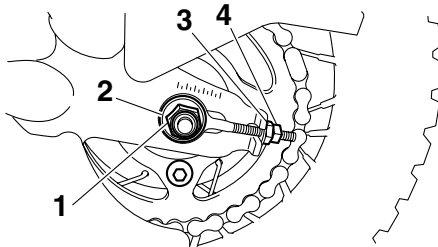
EWA10820

### To remove the rear wheel

#### **WARNING**

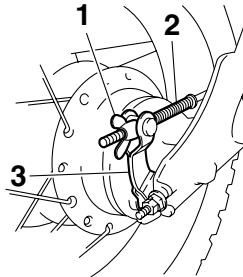
- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

1. Loosen the axle nut.



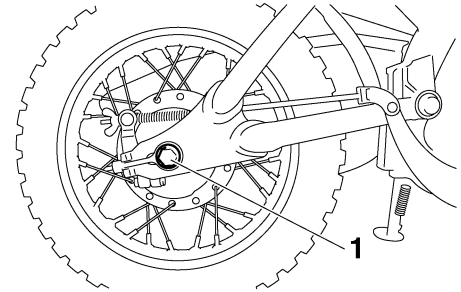
1. Axle nut
2. Washer
3. Drive chain slack adjusting nut
4. Locknut

2. Remove the brake pedal free play adjusting nut, and then disconnect the brake rod from the brake camshaft lever.



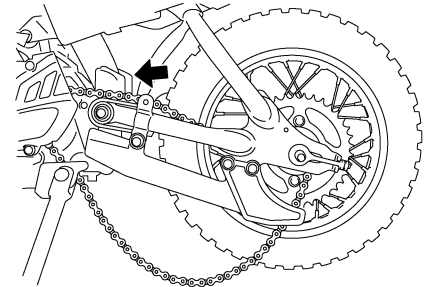
1. Brake pedal free play adjusting nut
2. Brake rod
3. Brake camshaft lever

3. Loosen the locknut and drive chain adjusting nut on each end of the swingarm.
4. Lift the rear wheel off the ground according to the procedure on page 6-25.
5. Remove the axle nut and washer, then pull the wheel axle out.



1. Wheel axle

6. Push the wheel forward, and then remove the drive chain from the rear sprocket.



#### **NOTE:**

The drive chain does not need to be disassembled in order to remove and install the wheel.

# PERIODIC MAINTENANCE AND MINOR REPAIR

7. Remove the wheel.

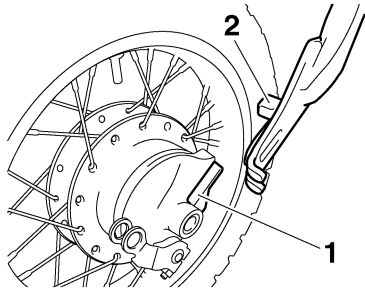
EAU39781

## To install the rear wheel

1. Install the drive chain onto the rear sprocket, and then install the wheel by inserting the wheel axle from the right-hand side.

### NOTE:

Make sure that the slot in the brake shoe plate fits over the retainer on the swingarm.



1. Slot
2. Retainer

2. Connect the brake rod to the brake camshaft lever, and then install the brake pedal free play adjusting nut onto the brake rod.

3. Adjust the drive chain slack. (See page 6-17.)
4. Install the washer and axle nut, and then lower the rear wheel so that it is on the ground.
5. Tighten the axle nut to the specified torque.

### Tightening torque:

Axle nut:  
60 Nm (6.0 m·kgf, 43 ft·lbf)

6. Adjust the brake pedal free play. (See page 6-16.)

EAU25850

## Troubleshooting

Although Yamaha motorcycles receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle properly.

Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

# PERIODIC MAINTENANCE AND MINOR REPAIR

EAU25901

## Troubleshooting chart

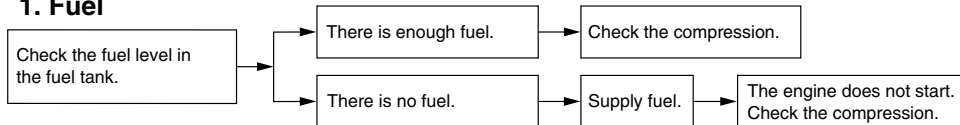
EWA10840



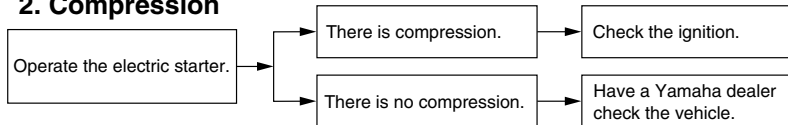
**WARNING**

**Keep away from open flames and do not smoke while checking or working on the fuel system.**

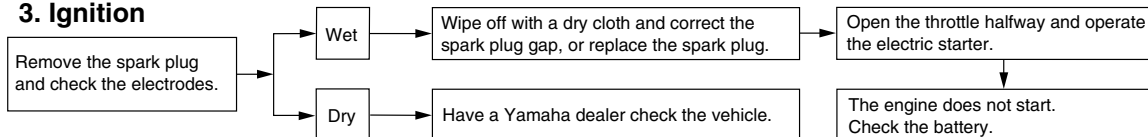
### 1. Fuel



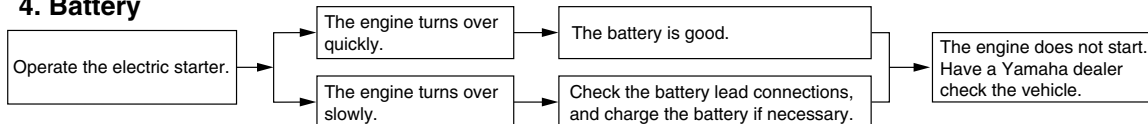
### 2. Compression



### 3. Ignition



### 4. Battery



# MOTORCYCLE CARE AND STORAGE

## Matte color caution

EAU37833

ECA15192

### CAUTION:

Some models are equipped with matte colored finished parts. Be sure to consult a Yamaha dealer for advice on what products to use before cleaning the vehicle. Using a brush, harsh chemical products or cleaning compounds when cleaning these parts will scratch or damage their surface. Wax also should not be applied to any matte colored finished parts.

## Care

EAU40462

While the open design of a motorcycle reveals the attractiveness of the technology, it also makes it more vulnerable. Rust and corrosion can develop even if high-quality components are used. A rusty exhaust pipe may go unnoticed on a car, however, it detracts from the overall appearance of a motorcycle. Frequent and proper care does not only comply with the terms of the warranty, but it will also keep your motorcycle looking good, extend its life and optimize its performance.

## Before cleaning

1. Cover the muffler outlet with a plastic bag after the engine has cooled down.
2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug cap, are tightly installed.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such prod-

ucts onto seals, gaskets, sprockets, the drive chain and wheel axles. Always rinse the dirt and degreaser off with water.

## Cleaning

ECA10771

### CAUTION:

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage plastic parts such as cowlings, panels, windshields, headlight lenses, meter lenses, etc. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in

# MOTORCYCLE CARE AND STORAGE

contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.

- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swing-arm bearings, fork and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.
- For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure that it does not leave any marks. If the windshield is

scratched, use a quality plastic polishing compound after washing.

## After normal use

Remove dirt with warm water, a mild detergent, and a soft, clean sponge, and then rinse thoroughly with clean water. Use a toothbrush or bottlebrush for hard-to-reach areas. Stubborn dirt and insects will come off more easily if the area is covered with a wet cloth for a few minutes before cleaning.

## After riding in the rain or near the sea

Since sea salt is extremely corrosive, carry out the following steps after each ride in the rain or near the sea.

1. Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down.

ECA10790

## **CAUTION:**

**Do not use warm water since it increases the corrosive action of the salt.**

2. Apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

## After cleaning

1. Dry the motorcycle with a chamois or an absorbing cloth.
2. Immediately dry the drive chain and lubricate it to prevent it from rusting.
3. Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)
4. To prevent corrosion, it is recommended to apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces.
5. Use spray oil as a universal cleaner to remove any remaining dirt.
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces.
8. Let the motorcycle dry completely before storing or covering it.

EWA14500

## **WARNING**

- Make sure that there is no oil or wax on the tires.

# MOTORCYCLE CARE AND STORAGE

- If necessary, wash the tires with warm water and a mild detergent. Before riding at higher speeds, test the motorcycle's braking performance and cornering behavior.

ECA10800

## CAUTION:

- Apply spray oil and wax sparingly and make sure to wipe off any excess.
- Never apply oil or wax to any rubber and plastic parts, but treat them with a suitable care product.
- Avoid using abrasive polishing compounds as they will wear away the paint.

## NOTE:

Consult a Yamaha dealer for advice on what products to use.

## Storage

EAU26150

### Short-term

Always store your motorcycle in a cool, dry place and, if necessary, protect it against dust with a porous cover.

ECA10810

## CAUTION:

- Storing the motorcycle in a poorly ventilated room or covering it with a tarp, while it is still wet, will allow water and humidity to seep in and cause rust.
- To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

### Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the "Care" section of this chapter.
2. For motorcycles equipped with a fuel cock that has an "OFF" position: Turn the fuel cock lever to "OFF".

3. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
5. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
  - a. Remove the spark plug cap and spark plug.
  - b. Pour a teaspoonful of engine oil into the spark plug bore.
  - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
  - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
  - e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.

# MOTORCYCLE CARE AND STORAGE

EWA10950

## **WARNING**

**To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.**

°C (90 °F)]. For more information on storing the battery, see page 6-23.

**NOTE:** \_\_\_\_\_  
Make any necessary repairs before storing the motorcycle.  
\_\_\_\_\_

6. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side-stand/centerstand.
7. Check and, if necessary, correct the tire air pressure, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
8. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
9. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30

# SPECIFICATIONS

## Dimensions:

Overall length:  
1305 mm (51.4 in)  
Overall width:  
595 mm (23.4 in)  
Overall height:  
775 mm (30.5 in)  
Seat height:  
555 mm (21.9 in)  
Wheelbase:  
925 mm (36.4 in)  
Ground clearance:  
135 mm (5.31 in)  
Minimum turning radius:  
1400 mm (55.1 in)

## Weight:

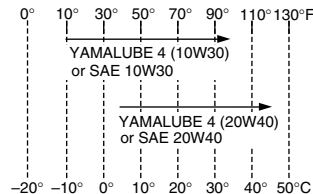
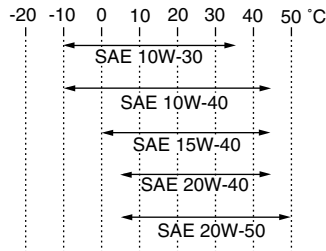
With oil and fuel:  
57.0 kg (126 lb)

## Engine:

Engine type:  
Air cooled 4-stroke, SOHC  
Cylinder arrangement:  
Forward-inclined single cylinder  
Displacement:  
49.0 cm<sup>3</sup>  
Bore × stroke:  
36.0 × 48.6 mm (1.42 × 1.91 in)  
Compression ratio:  
9.50 :1  
Starting system:  
Electric starter  
Lubrication system:  
Wet sump

## Engine oil:

Type:  
TT-R50E SAE10W30, SAE10W40,  
SAE15W40, SAE20W40 or SAE20W50  
TT-R50EX SAE10W30, SAE10W40,  
SAE15W40, SAE20W40 or SAE20W50  
(AUS)  
TT-R50EX YAMALUBE 4, SAE10W30 or  
SAE20W40 (CAN)



Recommended engine oil grade:  
API service SG type or higher, JASO  
standard MA  
Engine oil quantity:  
Periodic oil change:  
0.80 L (0.85 US qt) (0.70 Imp.qt)

## Air filter:

Air filter element:  
Wet element

## Fuel:

Recommended fuel:  
TT-R50E Regular unleaded gasoline only  
(AUT)(BEL)(CHE)(DEU)(DNK)(ESP)(FIN)  
(FRA)(GBR)(GRC)(IRL)(NLD)(NOR)(PRT)  
(SWE)(ZAF)  
TT-R50E Unleaded gasoline only (NZL)  
TT-R50EX Regular unleaded gasoline only  
(CAN)  
TT-R50EX Unleaded gasoline only (AUS)  
Fuel tank capacity:  
3.1 L (0.82 US gal) (0.68 Imp.gal)  
Fuel reserve amount:  
0.4 L (0.11 US gal) (0.09 Imp.gal)

## Carburetor:

Manufacturer:  
MIKUNI  
Type × quantity:  
VM11 x 1

## Spark plug (s):

Manufacturer/model:  
NGK/CR7HSA  
Spark plug gap:  
0.6–0.7 mm (0.024–0.028 in)



**Clutch:**

Clutch type:  
Wet, multiple-disc and centrifugal automatic

**Transmission:**

Primary reduction system:  
Spur gear  
Primary reduction ratio:  
67/18 (3.722)  
Secondary reduction system:  
Chain drive  
Secondary reduction ratio:  
37/13 (2.846)  
Transmission type:  
Constant mesh 3-speed  
Operation:  
Left foot operation  
Gear ratio:  
1st:  
39/12 (3.250)  
2nd:  
33/19 (1.736)  
3rd:  
28/23 (1.217)

**Chassis:**

Frame type:  
Steel tube backbone  
Caster angle:  
25.50 °  
Trail:  
34.0 mm (1.34 in)

**Front tire:**

Type:  
With tube

Size:  
2.50-10 4PR  
Manufacturer/model:  
CHENG SHIN/KNOBBY

**Rear tire:**

Type:  
With tube  
Size:  
2.50-10 4PR  
Manufacturer/model:  
CHENG SHIN/KNOBBY

**Loading:**

Maximum rider weight:  
40.0 kg (88 lb)

**Tire air pressure (measured on cold tires):**

Front:  
100 kPa (15 psi) (1.00 kgf/cm<sup>2</sup>)  
Rear:  
100 kPa (15 psi) (1.00 kgf/cm<sup>2</sup>)

**Front wheel:**

Wheel type:  
Spoke wheel  
Rim size:  
10x1.40

**Rear wheel:**

Wheel type:  
Spoke wheel  
Rim size:  
10x1.40

**Front brake:**

Type:  
Drum brake

Operation:  
Right hand operation

**Rear brake:**

Type:  
Drum brake  
Operation:  
Right foot operation

**Front suspension:**

Type:  
Telescopic fork  
Spring/shock absorber type:  
Coil spring  
Wheel travel:  
96.0 mm (3.78 in)

**Rear suspension:**

Type:  
Swingarm (monocross)  
Spring/shock absorber type:  
Coil spring/oil damper  
Wheel travel:  
71.0 mm (2.80 in)

**Electrical system:**

Ignition system:  
CDI  
Charging system:  
AC magneto

**Battery:**

Model:  
GT4B-5  
Voltage, capacity:  
12 V, 2.5 Ah

**Fuse:**

Fuse:  
10.0 A

# CONSUMER INFORMATION

EAU26351

## Identification numbers

Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

KEY IDENTIFICATION NUMBER:

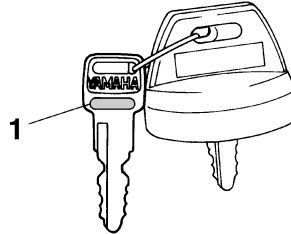
VEHICLE IDENTIFICATION NUMBER:

MODEL LABEL INFORMATION:

9

EAU26390

## Key identification number

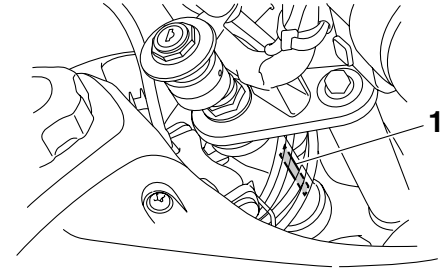


1. Key identification number

The key identification number is stamped into the key. Record this number in the space provided and use it for reference when ordering a new key.

EAU26400

## Vehicle identification number



1. Vehicle identification number

The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

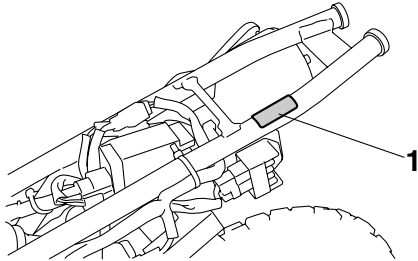
**NOTE:** \_\_\_\_\_

The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your area.

\_\_\_\_\_

## Model label

EAU26480



### 1. Model label

The model label is affixed to the frame under the seat. (See page 3-7.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

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